

RESULT 8

Db	601	CTTCCAGGAGCAGGAGGGCAGGGCAGGGAGGCCCTGCATTCTCTAC	660
Qy	1914	GCCAGGTCCGAGGTGGTGGACAGCCAGGCTGATGAGTGAGAGCGCA	1973
Db	661	GCCCAGTTCCGAGGTGGTGGACAGCCAGGCTGATGAGTGAGAGCGCA	720
Qy	1974	GGCCTGA 1980	
Db	721	AGCTGTA 727	

LOCUS BE531347 750 bp mRNA linear EST 09-AUG-2000

DEFINITION 60127540P1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610616 5'

ACCESSION BE531347

VERSION BE531347.1 GI:9759906

COMMENT

ORGANISM Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. 1 (bases 1 to 750)

REFERENCE NIH-MGC <http://mgc.nci.nih.gov/>

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE Unpublished

JOURNAL

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov

Tissue Procurement: ATCC

cDNA Library Preparation: Ling Hong/Rubin Laboratory

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>

Plate: LNCM66 Row: P column: 09

High quality sequence start: 3

High quality sequence stop: 750.

Location/Qualifiers

FEATURES source

1. . 750

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref=taxon:9606"

/clone="IMAGE:3610616"

/tissue_type="adenocarcinoma"

/lab_host="DH10B (pBlage-resistant)"

/clone_id="NIH_MGC_39"

/note="Organ: Pancra; Vector: pORN7; Site_1: Xhol; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/Xhol sites using the following 5' adaptor: GCGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT ORIGIN

158	a	240	c	232	g	120	t
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Query Match 35.9%; Score 711; DB 10; Length 750;
Best Local Similarity 100.0%; Pred. No. 1.5e-128; Indels 0; Gaps 0;
Matches 711; Conservative 0; Mismatches 0;

Qy 1100 ACTTCACCTCGAGGCTCTACCTACACAATGTCGCTCTGGATGAGGTCCCC 1159

Db 40 ACTTCTAACCTCGAGGCTCTACCTACACAATGTCGCTCTGGATGAGGTCCCC 99

Qy 1160 AGCTGCTGCCACTGGAGGAGCAGCAGCGCTCATGAGGTGGCTCAGGACAGGGCA 1219

Db 100 AGCTGCTGCCACTGGAGGAGCAGCAGCGCTCATGAGGTGGCTCAGGACAGGGCA 159

Qy 1220 CCCACGTTGGTCACTGCAAGATGGCGTCAGGCCCTCAAGGCCACAGCTGCTCCT 1279

RESULT 9

Db	160	CCCACGTTGGTCCACTGCAAGATGGCTCAGGCCACAGCTGCTCCT	219
Qy	1280	ATGCCCTGAGCAGTAGAATGCAAGCTGAGGCTGCGCAAGCAGACTCC	1339
Db	220	ATGCCCTGAGCAGTAGAATGCAAGCTGAGGCTGCGCAAGCAGACTCC	279
Qy	1340	GGCCCTCGACGCCACCTGGCTCTGGAGCCAGTCTACAGGCTCC	1399
Db	280	GGCCCTCGACGCCACCTGGCTCTGGAGCCAGTCTACAGGCTCC	339
Db	400	AGCACCAAGCCCTGAGCTCTACACCTCTCCGCGACCTGAGGTG	459
Qy	1400	TGACGCCAGCGCCAGGCGATGTTGGAGAGCAAAGTGGTGGGTCTCCAGAGG	1459
Db	340	TGACGCCAGCGCCAGGCGATGTTGGAGAGCAAAGTGGTGGGTCTCCAGAGG	399
Db	460	GTGGGAGGAGGAAAGTTGTTAGGCTGGAGCCAGGAGGAGGCT	519
Db	520	GCCACAGGCCAGTAACTCCGGGGTCATGGTCATCAGTCCTCTGGAGGCT	579
Db	1580	GTGGGAGGAGGAAAGTTGTTAGGCTGGAGCCAGGAGGAGGCT	1639
Db	1640	CCTTGAGCTGAGGACCTCGAGGAGCTGAGTCAGTCAGTCCTCTGGAGGCT	1699
Db	580	CCTTGAGCTGAGGACCTCGAGGAGCTGAGTCAGTCAGTCCTCTGGAGGCT	639
Db	1700	AGTCCTACATGAGGCTCTGGAGGCTTCCGAGGCTGAGGAGGAGGCC	1759
Db	640	AGTCCTACATGAGGCTCTGGAGGAGGCCCTCCGAGGAGGCC	699
Db	1760	AGCAGCTGGACAGGGGCCCTCAGCTGCCCTGAAGTCCCGAGTAGTG	1810
Db	700	AGCAGCTGGACAGGGGCCCTCAGCTGCCCTGAAGTCCCGAGTAGTG	750

LOCUS BU537952 947 bp mRNA linear EST 13-SEP-2002

DEFINITION AGNC00170186579 NIH_MGC_107 Homo sapiens cDNA clone IMAGE:568457 5', mRNA Sequence.

ACCESSION BU537952

VERSION BU537952.1 GI:22848393

COMMENT

FEATURES source

ORGANISM Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. 1 (bases 1 to 947)

REFERENCE NIH-MGC <http://mgc.nci.nih.gov/>

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE Unpublished

JOURNAL

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov

Tissue Procurement: ATCC

cDNA Library Preparation: Rubin Laboratory

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>

Plate: LNCM754 Row: c Column: 17

High quality sequence stop: 614.

Location/Qualifiers

FEATURES source

1. . 947

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref=taxon:9606"

/clone=IMAGE:568457"

/tissue_type="adenocarcinoma, cell line"

DE Novel human coding sequence SEQ ID NO: 243.

XX Human; antianemic; vulnerary; antiinflammatory; immunomodulator;

XX antiinflammatory; cerebroprotective; cytostatic; rheumatic; gene therapy;

KW neuroprotective; antiparkinsonian; protein therapy; RST;

XX expressed sequence tag; gene; ss.

OS Homo sapiens.

XX

PN WO200222660-A2

XX

PD 21-MAR-2002.

XX

PT 10-SEP-2001; 2001WO-US26015.

XX

PR 11-SEP-2000; 2000US-0659671.

XX

PA (HYSE-) HYSEQ INC.

XX

PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;

XX

XU Xue AJ, Yang Y, Wehrman T, Drmanac RT;

DR WPI; 2002-232408/33.

DR P-PSDB; ABB07419.

XX

PT An isolated polynucleotide for treating diseases associated with its encoded polypeptide such as cancer and multiple sclerosis -

XX

PS Claim 1, SEQ ID NO 243; 509pp; English.

XX

CC The present invention provides the protein and coding sequences of 444 novel human proteins. These were isolated from expressed sequences (ESTs). They can be used to stimulate cell growth, to regulate haemopoiesis e.g. to treat aplastic anaemia to help tissue regrowth e.g. in burn treatment, to regulate the immune system e.g. to treat multiple sclerosis, to regulate activin or inhibin e.g. to treat infertility, to regulate haemostasis or thrombolysis e.g. to treat stroke and cancer, to screen for drugs, to treat inflammatory conditions e.g. rheumatoid arthritis, and to treat nervous system disorders e.g. Parkinson's disease. The present sequence is a coding sequence of the invention.

XX

SO Sequence 2061 BP; 415 A<672 C; 605 G; 369 T; 0 other;

Query Match Best Local Similarity 43.0%; Score 851; DB 24; Length 2061; Matches 851; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

- 1 ATGGCCCTGGTCACTGATGCCGTTGCGCCGGGCGAGGGCGCTCAAGCCCGTGAGG 60
- 147 ATGGCCCTGGTCACTGATGCCGTTGCGCCGGGCGAGGGCGCTCAAGCCCGTGAGG 206
- 61 CCCCTGGACCAAGGGGTCCGGGAGGAGTGGATCCGGGAAGCAAGCTTGGCTG 120
- 207 CCCCTGGACCAAGGGGTCCGGGAGGAGTGGATCCGGGAAGCAAGCTTGGCTG 266
- 121 CTCCTGGGGCTGCTGGACTGGAGATGGAGGGGAATGTGAGCACAGAGCTGG 180
- 267 CTCCTGGGGCTGCTGGACTGGAGATGGAGGGGAATGTGAGCACAGCTGG 326
- 181 AGTCTGAGCCAAAGAGAGGGCCGGAGTGGAGGGCTCACGGGAGCACTGCAGC 240
- 327 AGTCTGAGCCAAAGAGAGGGCCGGAGTGGAGGGAGCTCCAGGGAGCACTGCAGC 386
- 241 TCTGGGCAAGGATCCCAAGTCCCAGAGTCCCAAGGAGGGCAAGGGCAACTGCACTC 300
- 387 TCTGGGCAAGGATCCCAAGTCCCAGAGGGAGGGCAACTGCACTC 420
- 301 ATGGTAGAGCTCTGAGGCCGGAGATCACATCGCCCTGGCGGCCAGCTGGAGGCC 446
- 447 ATGGTAGAGCTCTGAGGCCGGAGATCACATCGCCCTGGCGGCCAGCTGGAGGCC 506
- 361 CGGCCCTCCGGCTCCGCTACCTGCTGGTAGTTCTACACCGAGGAAGGGCTTGAGC 420

RESULT 11

ID AAH14722

AC AAH14722; AAH14722 standard; cDNA; 1755 BP.

XX

DT 26-JUN-2001 (first entry)

XX

DE Human cDNA sequence SEQ ID NO:12452.

KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.

OS Homo sapiens.

XX

EP EP1074617-A2.

PD 07-FEB-2001.

XX

PP 28-JUL-2000; 2000RP-0116126.

XX

PR 29-JUL-1999; 99JP-0248036.

PR 27-AUG-1999; 99JP-030053.

PR 11-JAN-2000; 2000JP-0118767.

PR 02-MAY-2000; 2000JP-0183767.

PR 09-JUN-2000; 2000JP-0241899.

PA (HELI-) HELIX RES INST:

XX

PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

XX

DR WPI; 2001-318749/34.

XX

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs -

CC including myocardial infarction, ischaemic diseases of the heart, atrial
 CC and ventricular arrhythmia, hypertensive vascular diseases and peripheral
 CC vascular diseases. The enzyme is useful in diagnostic assays for
 CC detecting diseases and abnormalities or susceptibility to diseases or
 CC abnormalities related to the presence of mutations in the encoding
 CC nucleic acid sequences. The present sequence represents the human MAP
 XX kinase phosphatase-like enzyme DNA fragment.

Sequence 1755 BP; 350 A; 577 C; 505 G; 323 T; 0 other;

Query Match 35.1%; Score 694; DB 24; Length 1755;
 Best Local Similarity 89.1%; Pred. No. 2.2e-137; Mismatches 0; Indels 98; Gaps 1;
 Matches 802; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0; GapPos 0;

QY 1081 ATGCCCCGGAGATGACACTTCTAACCTTGAGGCTTCACCTACCACTATGCGCTC 1140
 Db 322 ATGGCCCGGGAGATGACACTTCTAACCTTGAGGCTTCACCTACCACTATGCGCTC 381
 QY 1201 GCTGCAAGACACAGGGCACCCAGCTGTGTGACTCGAGATGGGCTAACCGCTCA 1260
 Db 442 GCTGCAAGACACAGGGCACCCAGCTGTGTGACTCGAGATGGGCTAACCGCTCA 441
 QY 1242 TGGGATGAGGAGTCGCCCTGACTCTGCCACTGGAGAGACCGACCGCTTCATAG 501
 QY 1261 GCGGCCACAGTGCTGCCTATGCCATGAAGCAGTAGATGATGAGCTGGAGCGCTG 1320
 Db 502 GCGGCCACAGTGCTGCCATGCCATGAAGCAGTAGATGAGCTGGAGCGCTG 561
 QY 1321 CGCCACCGTCAAGAGCTCCGCCCATCGCCGCCAACCTCGCTCGCCCTCGCC 1380
 Db 562 CGCCACCGTCAAGAGCTCCGCCCATCGCCGCCAACCTCGCTCGCCCTCGCC 621
 QY 1381 CASATCTACCAAGSCATCTGACGCCACCGCCAGAGCCATGCTGGAGCGAAATG 1440
 Db 622 CAGATCTACCAAGGGCATCTGACGCCACCGCCAGAGCCATGCTGGAGCGAAATG 645
 QY 1441 GGTGGGTCTCCCAGAGGACACCAGCCCTGAAGTCTTACACCACTCCACCTT 1500
 Db 645 -----
 QY 1501 CGCCACAGAACCTGAGGGTGGGGAGGAGAAGGTGTGAGCTGAAGAGACGCCAGCA 1560
 Db 646 -GCCAGAACCTGAGGGTGGGGAGGAGAAGGTGTGAGCTGAAGAGACGCCAGCA 703
 QY 1561 GCCCCGAAGAAGAGCCCTGGCCACGGCCAACGATAAACCTCGAGGGTCATGAGTCC 1620
 Db 704 GCCCCGAAGAAGAGCCCTGGCCACGGCCAACGATAAACCTCGAGGGTCATGAGTCC 763
 QY 1621 ATCAGTCTCTGGAGCCCTCTGGAGCTGGAGGCCCTAGAGACCGAGCATGCCA 1680
 Db 764 ATCAGTCTCTGGAGCCCTCTGGAGCTGGAGGCCCTAGAGACCGAGCATGCCA 823
 QY 1681 GAGGTCTCTCTTCCACGAGCTCTCACAGGAAGAGCCCTTGAGCTGGAGGCCCT 1740
 Db 824 GAGGTCTCTCTTCCACGAGCTCTCACAGGAAGAGCCCTTGAGCTGGAGGCCCT 883
 QY 1741 GCAAGGAGCAGGAGGGCCAGCTGGAGGAGGAGGGCTCAGCTGGCCCTGAATGCCG 1800
 Db 884 GCAGAGGAGCAGGGAGGCCCTGGAGGAGGGCTCAGCTGGAGGCCCTGAATGCCG 943
 QY 1801 CAGTCAGCTGTACCTCGGGAGCTGGCTGGGCCACCGACGGCCCTTCAG 1860
 Db 944 CAGTCAGCTGTACCTCGGGAGCTGGCTGGGCCACCGACGGCCCTTCAG 1003
 QY 1861 GAGGGAGGAGGGCCAGGGCAGGGCAGGGAGGCCCTTGCAATGCCCTTGAGCTGG 1920
 Db 1004 GAGGGAGGAGGGCCAGGGCAGGGCAGGGCAGGGAGGCCCTTGCAATGCCCTTGAGCTGG 1063
 QY 1921 TTCCGGAAGGTGGAGACAGGAGGCCAGGGCAGGGCAGGGCTGCAATGCCCTTGAGCTGG 1980
 Db 1064 TTCCGGAAGGTGGAGACAGGAGGCCAGGGCAGGGCAGGGCTGCAATGCCCTTGAGCTGG 1123

RESULT 13

ABL40803

ID ABL40803

AC ABL40803;

DE Human MAP kinase phosphatase-like enzyme DNA fragment.

XX Mitogen activated protein; MAP; MAP kinase phosphatase-like enzyme;

XX antiplatelet; antidiabetic; anorectic; cytostatic; cardiot; human;

XX antiparkinsonian; cerebroprotective; neuroprotective; nootropic; gene;

XX neurooptic; anticonvulsive; anti-HIV; antiarrhythmic; hypotensive;

XX antiallergic; dermatological; vulnerary; gene therapy; ds.

XX Homo sapiens.

XX PN WO2002073242.

XX PR 27-AUG-2001; 2001WO-EP09848.

XX DR 07-SEP-2000; 2000US230709P.

XX PA (FARB) BAYER AG.

XX PT Liou J.

XX DR WPI; 2002-339802/37.

PT New human mitogen activated protein kinase phosphatase-like enzyme polypeptide, regulators of which are useful for preventing, treating, PT allergies including asthma, diabetes, obesity, cancer and cardiovascular diseases -

XX Disclosure; Fig 8; 134pp; English.

CC The invention relates to a purified human mitogen activated protein (MAP) kinase phosphatase-like enzyme polypeptide. The enzyme can be expressed by standard recombinant methodology. The MAP kinase phosphatase-like enzyme and encoding polynucleotide are useful for screening for modulators which are used for treating a MAP kinase phosphatase-like enzyme dysfunction related disease, such as asthma, a central nervous system disorder, diabetes, obesity, chronic obstructive pulmonary disease, cancer or a cardiovascular disease. The enzyme can be regulated to treat allergies including asthma, allergic rhinitis, atopic dermatitis, and anaphylaxis, central nervous system disorders such as brain injuries, Parkinson's disease, dementia, multiple sclerosis, stroke, Alzheimer's disease, Huntington's disease, schizophrenia, Pick's disease, Creutzfeld-Jacob dementia, progressive nuclear palsy, and human immunodeficiency virus (HIV) dementia, and cardiovascular diseases including myocardial infarction, ischaemic diseases of the heart, atrial and ventricular arrhythmia, hypertensive vascular diseases and peripheral vascular diseases. The enzyme is useful in diagnostic assays for detecting diseases and abnormalities or susceptibility to diseases or abnormalities related to the presence of mutations in the encoding nucleic acid sequences. The present sequence represents the human MAP kinase phosphatase-like enzyme DNA fragment.

XX Sequence 599 BP; 135 A; 185 C; 183 G; 96 T; 0 other;

Query Match 24.8%; Score 491; DB 24; Length 599;

Best Local Similarity 85.9%; Pred. No. 1.6e-94; Mismatches 0; Indels 98; Gaps 1;

Matches 599; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0; GapPos 0;

QY 1024 TGGAAACGAGCACCTGGAGGAGCTGGAGGAGGGTACCCACATCTGAGCTG 1083

Db 1 TGGAAACGAGCACCTGGAGGAGCTGGAGGAGGGTACCCACATCTGAGCTG 60